

# Amateur Computer Group of New Jersey NEWS

Volume 39, Number 11

November 2014

## ACGNJ Announcements

### Main Meeting

Friday, November 7, 2014, 8:00 PM to 10:00 PM

**Scheduled Topic:** UNIX commands A-Z - Part 2 (K-Z)

**Scheduled Speaker:** Scot Jenkins

### Window Pains Meeting

Friday, November 21, 2014, 8:00 PM to 10:00 PM.

**Scheduled Topic:** Rosetta Stone.

**Scheduled Speaker:** Paul Syers.

## ACGNJ E-mails

Subject: computer workshop

From: Malthi Masurekar

Sent: Sun 10/12/14 2:40 PM

To: bod (at) acgnj.org

For me it was a great success. Scot helped to take it apart and showed me how to clean it and other repairs.

My grandchildren had stuck a CD not in the drive but below the CD drive box. (I don't know how they managed to do it). When the box was removed CD

(Continued On Page 3)



<http://www.acgnj.org>

Founded 1975

**This newsletter was made by 100% pure Linux!**

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## ACGNJ Meetings

For the very latest news on ACGNJ meetings, please visit the ACGNJ Website ([www.acgnj.org](http://www.acgnj.org)).

For news from OTHER clubs, please go to:

<http://www.acgnj.org/joomla/>

**Lunics (Linux/UNIX):** Monday, November 3, 8 PM

Andreas Meyer (lunics (at) acgnj.org)

**Board of Directors Meeting:** Tues, Nov 4, 7 PM

Mike Redlich (president (at) acgnj.org)

**Main Meeting:** Friday, November 7. 8:00 PM

Mike Redlich (president (at) acgnj.org)

**Layman's Forum:** Monday, November 10, 8:00 PM

Matt Skoda (som359 (at) gmail.com)

**Java:** Tuesday, November 11, 7:30 PM

Mike Redlich (mike (at) redlich.net)

**Investing:** Thursday, November 13, 8:00 PM

Jim Cooper (jim (at) thecoopers.org).

**NJ Gamers:** Friday, November 14, 6:00 PM

Gregg McCarthy (greggmajestic (at) gmail.com)

**Computer Workshop:** **Saturday**, Nov. 15, **1:00 PM**

**!!!WARNING!!! Due to the unusual way that our schedule is arranged, this meeting will be held on the third Saturday of November, NOT the second.**

**Web Browser:** Monday, November 17, 7:30 PM

David McRitchie (firefox (at) acgnj.org)

**C/C++:** Tuesday, November 18, 7:30 PM

Bruce Arnold (barnold (at) ieee.org)

**Window Pains:** Friday, November 21, 8:00 PM

John Raff (john (at) jraff.com)

**Lunics (Linux/UNIX):** Monday, December 1, 8 PM

Andreas Meyer (lunics (at) acgnj.org)

**All meetings, unless otherwise noted, are at the Scotch Plains Rescue Squad, 1916 Bartle Ave, Scotch Plains, New Jersey. Directions and map on last page.** 🗺

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**Submissions:** Articles, reviews, cartoons, illustrations. Most common formats are acceptable. Graphics embedded in the document must also be sent as separate files. E-mail submissions to [newsletter@acgnj.org](mailto:newsletter@acgnj.org) preferred. **Always confirm.** Date review and include name of word processor used, your name, address and phone and name, address and phone of manufacturer, if available.

**Tips for reviewers:** Why does anyone need it? Why did you like it or hate it? Ease (or difficulty) of installation, learning and use. Would you pay for it?

**Advertising:** Non-commercial announcements from members are free. Commercial ads 15 cents per word, \$5 minimum. Camera ready display ads: Full page (7 x 10 inches) \$150, two-thirds page (4.5 x 10) \$115, half-page \$85, one-third \$57, quarter \$50, eighth \$30. Discount 10% on 3 or more consecutive insertions. Enclose payment.

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**Address Changes** should be e-mailed to [membership@acgnj.org](mailto:membership@acgnj.org) or sent to ACGNJ at the address below.

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**Typographic Note:** This ACGNJ News was produced using Scribus 1.3.3.13. Font families used are Times New Roman (TT) for body text, Arial (TT) for headlines.

### E-Mail Addresses

Here are the e-mail addresses of ACGNJ Officers, Directors and SIG Leaders (and the Newsletter Editor). This list is also at <http://www.acgnj.org/officers.html>.

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came out. When I came home there was another CD in the drive which I was able to eject it. (I wonder if the second CD below the box had somehow misaligned the CD rom box, for last whole year I was not able eject it). I can now play movie or CD rom with slides on it. I will later try to load a new program.

I don't know whether dusting it helped at all but my computer now runs quiet as a mouse. I also think the noise was from CD rom box trying to eject the struck CD.

Alls well that ends well, I now have my computer back to its original state. Next I would like to come in and work on creating recovery media. It ts great to have workshop close to home.

Thanks to all those who helped.

Malthi

Subject: Re: computer workshop

From: Scot Jenkins

Sent: Mon 10/13/14 11:06 AM

To: Malthi Masurekar; bod (at) acgnj.org

Malthi wrote: "For me it was a great success. Scot

helped to take it apart and showed me how to clean it and other repairs". I can't take all the credit. It was Bob Hawes' idea to have the SIG, and Bob was in the process of helping take your computer apart when I arrived.

Malthi also wrote: "Next I would like to come in and work on creating recovery media". Are you looking for factory recovery media, to restore the computer to it's original state, or do you want to create backups of the current state of the machine and all your data?

If you just want factory recovery media, get the model number (probably on the back of the machine) and check the manufacturer's (hp.com) web site to see if they provide a downloadable recovery disc.

If you want a full backup of the current state we'll need to know some more information:

- what OS and version are you running?
- how much space is used on your hard drive?
- what options you have for backup media? (usb, external disk, cdrw/dvdrw, ...)

This would include not only have a device to create the backup but the media too.

Scot ☐

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## **Computer Workshop Meeting Report**

*Bob Hawes, ACGNJ*

We had a successful first meeting on Saturday, October 11<sup>th</sup>, with a total of 5 attendees; but things *didn't* start off well. Since this was my first time as a SIG leader, I'd planned to arrive about an hour early. I'd also planned to bring a project of my own to work on. (In case nobody else showed up). Unfortunately, my project just wasn't in good enough condition to go. So I set out late, carrying nothing, and I got there only a few minutes before 1:00 PM (the meeting's start time). That's when I found that my electronic key *wouldn't* unlock the front door. (Even though it had worked just fine earlier in the week).

Fortunately for me, there were some Rescue Squad

members downstairs, so they let me in when I rang the doorbell. They also determined that my key was OK, but apparently it *hadn't* been programmed to work on Saturdays. (Hopefully, I can get that fixed before next month's meeting). After that, other members arrived. Including Malthi Masurekar with a computer that needed work, and Scot Jenkins with his tools. (I'd foolishly forgotten mine). Malthi and Scot each sent in complementary e-mails, both of which have been reproduced above in this newsletter, starting on page 1. (Purely by coincidence, you understand).

All in all, it was a good beginning. ☐

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## **Mobile Devices Meeting Report**

*Brenda F. Bell, ACGNJ*

At our October 8 meeting, 6 members present (Brenda Bell, Wendy Bell, Dave McRitchie, Don McBride, Mike Reagan and Lonnie Butler (who has

been going to the investment group).

Most of the meeting was spent in Random Access, as Don was having issues accessing the data use history

## Mobile Devices Meeting Report, *continued*

on his iPhone (trying to find out why he'd used up so much of his data allowance, and when) and Wendy has been impatiently waiting for the Windows Phone 8.1 upgrade for her Nokia Lumia 928.

We went through turning mobile data and WiFi on and off on the iPhone, and downloaded "My Verizon" for the iPhone.

An online search told us that the iOS 8 update is 1.6 GB, explaining Don's high data use for the past month. Changing from mobile data to WiFi for large downloads should help Don's data use issues. He called Verizon Wireless (VZW) for assistance with registering his new device to his account. He also had issues with getting his fingerprint login to work consistently, but may have resolved that himself.

We searched the Windows Phone forums for information about the 8.1 update for the Lumia 928.

Discussion on the WP Central forum suggests insider

information that 8.1 will be unavailable until after Verizon Wireless loses its exclusivity on the HTC One (M8) for Windows Phone. (This may be some time after Christmas 2014.) According to the forum, VZW has been citing "extensive testing". On a different forum, a user who had downloaded the developer edition said it started misbehaving after the first week or two. Wendy called Verizon Wireless support and got the "still testing" line. Since the OS upgrade has been available to providers since April, she is officially calling BS on VZW.

When we got as far as we could with the Random Access issues, Brenda provided some insights on her recent trip to Interop. Most of this was related to Mobile Security issues, but we also tested some of her swag -- including the Lightning connectors on her HP and cPacket provided USB spiders.

Because of the long Random Access, the meeting ran long, breaking up at about 10:45 pm. ☹

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## ACGNJ Investment Meeting SUMMARY (October 9, 2014)

*Philip Lees, ACGNJ*

We had a very engaging meeting on Thursday, 10/9/2014 with **14** attendees.

Jim Cooper started the first discussion with a question by John Mercovich. It was an options question concerning the stock ADHD, its very high implied volatility and its sudden collapse in price. We discussed the stock and its chart, looked up news on Finviz.com and determined that it was a biotech stock that had disappointing test results.

Jim then moved onto his stocks-n-charts presentation, which again generated a lot of interaction, a number of questions and a lot of discussion. Everybody seems to really enjoy the way Jim does this presentation and discusses his technical

setups etc.

Ernest Aldalcio then did a very good follow-up presentation and discussion of the free dough.com options trading platform created by tasytrade.com. Ernest showed a number of trades that he had performed and even added some levity when he explained how he "accidentally" made some trading profits on some options trades. That's a high-class problem to have, "accidentally" making profits!

Thanks to everybody who attended. Please attend the meetings, everybody learns from them. We hope to see you at November's meeting, **11/13/2014**. Thank you.

Philip Lees. ☹

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## ACGNJ Mini-Reports

### Main Meeting Report

*Mike Redlich, ACGNJ*

Our October Main Meeting was held on October 3, 2014 where we welcomed Bill Cheswick. His presentation was entitled, "Computer Security: I Think We Can Win." Bill gave a wonderful presentation that included a discussion of the recent

data breaches and how we can keep ourselves safe in cyberspace. There were 19 attendees that included a handful of Bill's former AT&T work colleagues. This was indeed very refreshing to see new faces at a club meeting. ☹

## Java Users Group Report

*Mike Redlich, ACGNJ*

There were 8 attendees at our October 14, 2014 Java Users Group meeting, entitled “A Review of the JavaOne Conference.” Our own Barry Burd attended this annual conference from September 29 through

October 2, 2014. He discussed his experiences at the conference including some “drama” that occurred at one of the keynote addresses and a review of some on-line conference videos. ☞

## Window Pains Meeting Report

*Wendy Bell, ACGNJ*

We had 7 attendees at the Windows Pains Meeting on October 17 at the Microsoft Store.

Speaker Brandon Jung gave a talk on the various Windows Phones that they have, which include the Nokia Lumia Icon (also known as the Nokia Lumia 929) and the Nokia Lumia 928, which have a 20 Megapixel camera and an 8.7 Megapixel camera respectively and are Windows Phones for the

Verizon Network. They also talked about Nokia Lumia 1020 which has a 41 Megapixel camera that is for the AT&T Network and the Nokia Lumia 521 and 635 which both have 5 Megapixel cameras, and are for the T-Mobile Network.

All Windows Phones come with Microsoft Office, One Note and OneDrive. (OneDrive is Microsoft's answer to saving everything on the Cloud). ☞

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## Distros Revisited (Part 6)

*Bob Hawes, ACGNJ*

*simplyMEPIS and Lubuntu*

First, some recap (mostly repeated from previous articles): Distros are Linux Distributions. I first mentioned them over *nine* years ago, in the *very first* article that I ever wrote for this newsletter (*Linux Dual Boot Experiments*, in our May 2005 issue). In the first five parts of *this* article (in our April, May, June, August and September 2014 issues), I tested eight distros as possible replacements for my aging Ubuntu 12.04 LTS system. Five *failed*, but three passed: Linux Mint, Lubuntu and simplyMEPIS. Now, it's time to put each of them into full-time service for a while. In *Part 5*, we checked out Mint. Our next victim (oops, I mean candidate) is MEPIS.

In my initial experiments, I used a small temporary 2 GB hard disk to hold my test data. Now, for these three more-or-less final candidates, I'm using my regular “320” GB data hard disk. (By the way, that “320” is *sarcasm*. Manufacturers routinely *lie* about the sizes of their equipment. This particular disk would be lucky to hold 298 GB on a *good* day). For reasons that made a *lot* of sense years ago when I set it up, my data hard disk is divided into *seven* partitions, each measuring 42 or so GB. I do most of my current work in the partition labeled D\_DRIVE.

After I booted my computer from MEPIS, the first thing I did was make some tweaks. When, as a maintenance guy, I was working on other people's computers, I grew to really *hate* screen savers. (They'd always kick in at *exactly* the wrong moment). So, as I always do on my own machines, I disabled the MEPIS screen saver. (At least I *think* it's disabled. Actually, it looked like it was disabled by default, so I wound up leaving it the way it was). I also think that I disabled all the power saving options, so that my display will never “go to sleep” on me; but these KDE tools are radically different than the GNOME tools I'm used to. So only time will tell if I got them right. I also set my system to log me in automatically, without having to type in my password. (That, at least, I could check right away. I just rebooted). Then, I increased my mouse's “Double click interval” from 400 msec to 800 msec. So far, that seems to suit my aging fingers just fine.

As I was testing Mint (see *Part 5*), I made backups of *all seven* of my data partitions. (Using Kbackup, which I first examined in *Back Us Up, Mister Tux*, my article in our March 2012 issue). However, I only restored one of them. So, to keep things as equal as

possible in *this* test, I installed Kbackup here, too. (It took about two minutes). Then, just to verify that it worked, I backed up the 532 files and 12 directories in the ACGNJ\_CD directory. That took 1 minute and 50 seconds. (I thought about re-making one of those seven full backups, but that would have been *completely* insane). Now, though, we come to a full-scale operation. I *did* restore one of those full backups here.

I chose the E\_DRIVE backup, with 31,462 files in 82 directories, totaling 40.9 GB. As I noted in *Part 5*, Kbackup doesn't seem to *have* a Restore function. So in *Part 5* (and in *Back Us Up, Mister Tux*), I had to use Archive Manager to perform restorations instead. Here, I used Ark, described as the "KDE Archiving tool". (Great! Another program that I never used before). It took Ark about 76 minutes to extract those files into a temporary restoration directory. Then, under *Wine* (the Windows emulator/compatibility layer), I ran md5summer.exe's Verify function, which took 64 minutes, 16 seconds, and didn't get any errors. (For *a lot* more information about

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player; but MP3 launched Audacity (a Digital Audio Editor). For each of its type, VLC handled the audio playback just fine, but the video playback was very "choppy". MEPIS didn't seem to have a suitable alternative player installed, so I checked out Synaptic Package Manager. There I found Totem Movie Player 3.0.1, the *exact* same version of the player that I've been happily using on Ubuntu 12.04. So I installed it.

Then, in my file browser, I right-clicked on the file I wanted, hovered my mouse cursor over Open With on the menu that popped up, and then clicked on Movie Player in the sub-menu that likewise popped up. That launched Totem. Furthermore, for the last four types, that action was enough to re-assign those files to always play with Totem. For MP3 files, it *did* launch Totem the first time; but it *didn't* change the assignment. After that, just double-clicking on an MP3 file still launched Audacity. (Which was *no* help at all, since it's an editor, not a player). On that same right-click menu, under Properties, Mint had an Open With option that changed the assignment permanently. MEPIS *doesn't* have that option there.

md5summer.exe, see *Part 5*).

Also in *Part 5*, I asked the question "So, what do I do a lot under 12.04?" The answer was "I browse the Internet". Under Mint, I used Firefox (my usual browser); but MEPIS *doesn't* install Firefox by default, and the MEPIS version of Synaptic Package Manager doesn't even list it as an available package. MEPIS *does* have two browsers already installed, though: Konqueror and Iceweasel. (I used Konqueror years ago. I don't remember it giving me any problems, but I don't remember it giving me any thrills, either). So I decided to try Iceweasel. (There's an interesting story behind that name. Unfortunately, explaining it is beyond the scope of this article). As I did under Mint, I accessed Hotmail, TVGuide.com, Distrowatch and the ACGNJ website. Then I wound things up by wasting some time watching Internet TV. I had no problems.

Next, sticking with frivolity a little while longer, I double-clicked on some music video files, of types MP3, MP4, FLV, WMV and OGV. When I double-clicked on them, the last four launched VLC media

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So far, I haven't been able to find it anywhere else, either.

Unfortunately, after all that, Totem played the videos better than VLC, but *not* perfectly. My guess is that MEPIS has overloaded my computer, so that either player "pushes it to the edge", and the video playback suffers as a result. Right now, there's nothing I can do about this. So I moved on to Printers. On the main menu, I clicked on System Settings, then I scrolled down to Hardware, and I double-clicked on Printer Configuration. That brought up a Printer Configuration window, with no printers listed. So I turned on my printer. Previously, at this point, Mint had automatically recognized and installed my printer within a minute. Not so for MEPIS.

Therefore, I clicked on the New Printer button, and a New Printer window popped up, displaying a "Select Connection" list with my printer already highlighted. So I just clicked the Forward button. That brought up a "Select printer from database" list, with HP already highlighted. So I just clicked the Forward button again. That brought up two lists ("Models" and

“Driver”), both with my printer already highlighted. So I just clicked Forward again. I got a summation list, and I just clicked OK. That brought me back to the original Printer Configuration window, with my printer now listed. So I printed a test page. Success!

That brought MEPIS to the same point as Mint. Initially, both had problems playing video files. On both, I got better results by switching to a different video player; but only Mint got perfect results. (*If* the term “perfect” can be accurately applied to music videos). So Mint is ahead so far. Now, because we've barely passed 1,200 words, we've got room to examine Ubuntu as well. After booting from my Ubuntu hard disk, I first made the same tweaks that I did for MEPIS above. The tools were different, but I had no trouble, except that I *couldn't* find a way to increase my mouse's double-click time.

As above, to keep things as equal as possible, I installed Kbackup on Ubuntu, too. (It took about two minutes). Also as above, just to verify that it worked, I made a small backup. It took 2 minute, 35 seconds. Then, I restored my F\_DRIVE backup,

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Both md5summer.exe times were shorter than I expected; but now, having double-checked, I had to accept those results. Including the fact that there was a 1 minute and 39 second difference in results. Even when the exact same program was run under the exact same operating system, examining the exact same files in the exact same directory on the exact same hard disk. Given that difference from md5summer.exe, it was reasonable to accept as accurate those 79 and 82 minute extraction times from two *different* programs. Especially considering the inaccuracies involved when timing from a wrist watch. (While md5summer.exe has a built-in timer, both Archive Manager and Ark *don't*).

That just leaves one discrepancy: the ridiculous 25 minute read in time taken by Archive Manager. (Versus the almost instant read in time achieved by Ark). In my opinion, this represents a serious bug in Ubuntu's version of Archive Manager. (In *Part 5*, Mint's version of Archive Manager also had an almost instant read in time, and so has every other archiving program that I ever remember using). From now on (under Ubuntu, anyway) I'll stick to

containing 67 *huge* files in 4 directories, totaling 43 GB. Here, I got a surprise. Ubuntu's version of Archive Manager took 25 minutes just to *read in* the contents of that backup. (Something that took almost *NO* time for either Mint or MEPIS). After that, when I could finally issue the Extract command, it took a further 79 minutes to extract those files into a temporary directory. That's 1 hour and 44 minutes total. Wow! On the other hand, md5summer.exe's Verify function took 43:05, and didn't get any errors.

I was surprised both by that longer than expected extraction time, *and* by that shorter than expected verification time. To make sense of those results, I needed more data. So I checked Synaptic Package Manager, where I found Ark listed as available; and having found it, I installed it. Then, I used Ark to restore that same backup into the same temporary directory. (With its previously restored files erased first, of course). Ark read the contents of the backup almost instantly, and then extracted it in 82 minutes. This time, md5summer.exe's Verify function took 41:26, and again it didn't get any errors.

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Ark.

Next, we come to the Internet. Unlike MEPIS, Ubuntu installed Firefox by default. So I accessed Hotmail, TVGuide.com, Distrowatch and the ACGNJ website; and, as before. I wasted some time watching Internet TV. Now for videos: Again, I double-clicked on files of types MP3, MP4, FLV, WMV and OGV. When I double-clicked on files of each type, they all launched GNOME Mplayer, with satisfactory results.

That brought us to my printer. So I clicked on the annoyingly unlabeled icon in the bottom left hand corner of the screen, hovered my mouse cursor over System Tools on the menu that popped up, and then clicked on Printers on the sub-menu that likewise popped up. That brought up a window labeled “Printers – localhost”, which said: “There are no printers configured yet”. At this point, I turned on my printer. As with MEPIS, nothing happened.

So I clicked on the Add button. Up popped a New Printer window, with my printer's name listed under Select Device; but it *wasn't* highlighted. (Enter URI was highlighted). So I put the highlight to my



printer, and clicked on the Forward button. A Database list appeared, with HP already highlighted. So I clicked the Forward button again. A Choose Driver list appeared, with the *wrong* HP printer highlighted. I scrolled the list from top to bottom, and my printer *wasn't* on it. So I thought; “Maybe it's a generic driver”, accepted the highlighted printer, and pressed Forward. I got a summation list, so I just clicked Apply. Later, I really wasn't too surprised when my test page *didn't* print.

Back in the “Printers – localhost” window, I deleted my non-working printer, then I clicked on the Add button and went through the whole process again, searching for an option I might have missed the first time. I found a “Search for a printer driver to download” option, so I selected it, then clicked the Search button that appeared. The only reaction that I got was that the Search button became “grayed out”. No blinking of my drive activity light, and no flashing from my router lights, either. So I sat back to await results. When nothing happened after a few minutes, I picked up a mystery book that I'd been

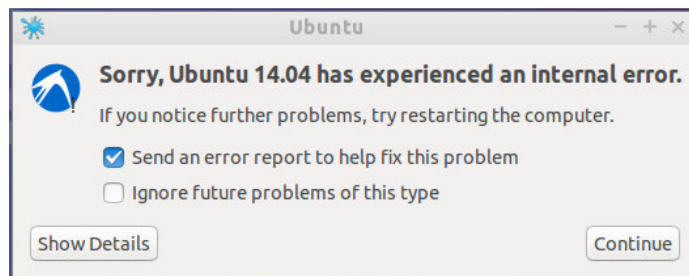
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while, I rebooted my computer. (Just to be safe). Then, I tried to repeat that sequence several times, but I could never get that error message again. (Aarrgh!!!)

Now, I got my printer in 2009. That makes the Ubuntu HP printer database *at least* five years out of date. (Incidentally, *ALL* previous versions of Ubuntu that I've used since 2009 have installed this printer just fine, including 11.04 and 12.04). I just *might* have been able to get along without increasing my mouse's double-click time. (Oh! My aching fingers). However, there's absolutely no way I could get along without a printer. I'll have to see if I can get a response from Ubuntu's technical support. (I won't hold my breath).

When I wrote that paragraph directly above, it was early August. (In fact, I wrote almost *everything* above at just about the same time as I wrote *Part 5*). Now, it's late September, and this article is scheduled for our November 2014 issue (which, of course, has to be finished by late October). Not much time left, and I *still* haven't received any help from Ubuntu. So Ubuntu is *out* unless I can get a working printer

reading earlier, and became immersed. About an hour and ten minutes later, my hand accidentally knocked into my mouse. Somehow, that caused the New Printer window to disappear, and an error message to pop up instead. (See [Figure 1](#)).



**Figure 1**

Luckily for me, the first thing that I did was to make a screen print. (So at least I've got a picture of that error message to show you). Next, although I wanted to click on that Show Details button, I decide to be responsible and send that error report. So I clicked on Continue instead. As far as I can tell, nothing happened then, either. Except that the error message disappeared. After mentally kicking myself for a

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driver. However, I just had a belated idea: “What if I tried the Hewlett-Packard website?” (Isn't it amazing that it only took me nearly *two months* to think of that?) So I went to my Google Start Page and typed in “hp”.

The second in my list of search results was “HP Official Site | Laptop Computers, Desktops, Printers ...”, and right beneath that was a link labeled “HP Support and Drivers”. That took me to a “Drivers & Downloads” page. There, under “Find my product” was a box with “Enter product name or number” written inside it. I typed in “F4480” (my printer's real name), then I pressed the Go button. That took me to a web page headed by “Customer Support” and “Drivers & Software”. Under that, in large bold print, it said “1 match found. Please select below”. Under that, in slightly smaller but still bold print, it said “HP Deskjet F4400 All-in-One Printer series”; and below that, in even smaller, *non*-bold print, it said “HP Deskjet F4480 All-in-One Printer”.

That last line was the link. I clicked on it and went to a web page headed by “HP Deskjet F4480 All-in-One Printer support” and “HP Deskjet F4480 All-in-



One Printer Drivers”. Further down the page, it said “Select or confirm your operating system and click Next”. Below that was a drop-arrow box with “Select...” written inside it. When I clicked on the arrow, I got a list of 19 operating systems. However, 12 of them were Windows versions and 7 of them were Mac versions. So in reality, it only supported 2 operating systems.

Below that, in small type, was a link that said “I don't see my operating system”. I clicked on it and went to a page headed by “HP Consumer Support” and “What if I Don't See My Operating System?” Below that were paragraphs started by phrases such as “Why is there no driver available for my operating system?” and “What other options are available?” Way down, almost to the bottom of the page, was a paragraph started by “Linux print drivers for HP printers”.

It continued by saying “HP develops HP Linux Imaging & Printing (HPLIP) software that includes a driver, a driver installer, and a toolbox for setting up and configuring HP printers. The software provides

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Distribution”. When I clicked on its drop-arrow, I got a list of 15 Linux distributions. The closest match to Lubuntu was “Ubuntu”. So I selected it. The second box said “Step 2: Select Version”. When I clicked on its drop-arrow, I got a list of 7 version numbers. I selected “14.04”.

The third box said “Step 3: Select Printer Type”. When I clicked on its drop-arrow, I got a list of 13 types. I selected “Deskjet All-in-One”. The fourth box said “Step 4: Select Printer Model”. When I clicked on its drop-arrow, I got a monstrously long list of printers. I scrolled down until I found “HP Deskjet f4480 All-in-one Printer”. Then I selected it. (By the way, that lower case f in “f4480” and the lower case o in “All-in-one” are *their* mistakes, not mine). The Next button said “Step 5: Click Next”. So I did.

That took me to *another* page headed by “HP Linux Imaging and Printing” and “Installation Wizard”. It displayed an installation summary, then offered three buttons. I clicked on the Next button. That took me to *yet another* page headed by “HP Linux Imaging and Printing” and “Installation Wizard”, with yet

support for over 2,200 HP products and works with nearly any Linux distribution on the market today. Although HP does not ship printers with HPLIP software on the software CDs, all major Linux distributions regularly integrate HPLIP into their software releases”. This was followed by a link that said “Click here to download the latest HPLIP software”.

That took me to a page headed by “Visit a website outside of Hewlett-Packard”. It said “Notice: By using this link you are leaving the Hewlett-Packard Website. HP assumes no responsibility for information outside of the HP Website. Click on the link below if you want to continue”. That link said: “<http://www.hplipopensource.com/hplip-web/index.html>”. This took me to a page headed by “HP Linux Imaging and Printing”. Further down the page was a big black Download HPLIP button.

That took me to a page headed by “HP Linux Imaging and Printing” and “Installation Wizard”. Below that were four drop-arrow boxes and a Next button. The first box said “Step 1: Select

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another Next button. So I clicked on it, too.

That took me to a page headed by “HP Linux Imaging and Printing” and “Installer Walkthrough”. It presented me with two steps. Step 1 had two parts. First, I pressed the Download HPLIP button. (After the download was finished, I had to click on Firefox's “Go back one page” arrow *several* times before I got back to the page containing the Download HPLIP button). Then, I clicked on the link that said “Download Digital Certificate”. (After this download was finished, I only had to click on Firefox's “Go back one page” arrow *once* before I got back to the page containing the link). While I made both downloads to a new permanent directory on my data hard disk, I also temporarily copied them to Lubuntu's desktop. It's just easier to run them from there.

For Step 2, I followed their directions, opening a terminal window and entering the following commands. (Note that the upper case D in Desktop is important. A lower case d *won't* work).

```
cd Desktop
sh hplip-3.14.6.run
```

It took quite a while to run. When it was finished, I clicked on the aforementioned annoyingly unlabeled icon, went to System Tools and then to Printers. There, in the “Printers – localhost” window, was a new icon labeled “Deskjet\_F4400”. I clicked on it, clicked on the Printers drop-down menu, selected Properties, and clicked on the Print Test Page button. **Success!!!**

Let's compare “description times”. In *Part 5*, it took me only **57** words to describe how Mint automatically installed my printer. Way, way above, it took me 168 words to describe how I installed my printer under MEPIS. Whereas, just now, it took me **974** words to describe how I installed my printer under Ubuntu. Wow! Talk about long-winded.

Speaking of long-winded: It's time to wrap this thing up. So far, Ubuntu and MEPIS are “iffy”, and Mint passed OK; but I've been working with Mint 16. If they keep to their current schedule, by the time that

Ubuntu 12.04 expires, Mint **19** will be coming out. Who knows what changes they might have made by then? Anyway, if I can just find a way to increase my mouse's “Double click interval”, Ubuntu 14.04 (with its three years of LTS update support) would probably **win** hands down.

As far as actual use goes, I've spent the past two months working almost exclusively with Mint. So far, I've got quibbles, but no major complaints. Next, I plan to spend a similar amount of time with Ubuntu, documenting any faults I may find. Then, I'll do the same for MEPIS. That'll just about take me to the time when my beloved Ubuntu 12.04 LTS expires. (I'd happily continue using Ubuntu if its developers hadn't all gone wacky and switched to the Unity desktop). Isn't it sad that in order to find an adequate replacement for an operating system that I **REALLY** liked, I have to **stop** using it for the last six months of its life? See you next month. ☹

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## IoTMT (Internet of Too Many Things)

*Greg Skalka, President, Under the Computer Hood User Group, CA  
Newsletter: Drive Light ([www.uchug.org](http://www.uchug.org)) President (at) uchug.org*

The Internet of Things (IoT) describes a situation in which everything is networked together on the Internet. Presently computers, tablets and smart phones dominate the Internet, but other kinds of devices are being added to the network all the time. A lot of us probably have some of these other devices already. I have networked hard drives and IP cameras that can be accessed through the Internet from anywhere I can connect. My smart TV and networked Blu-ray player can receive content, including streaming media, from the Internet. There are already refrigerators, thermostats, door locks, sprinkler timers and light bulbs available that can be connected through the Internet. It is said that the real power of the IoT will come about when machine to machine (M2M) communication is the predominant traffic. All that interconnection holds the promise of greater efficiency, knowledge and control in our lives. At that point, however, will humans get to use the Internet anymore, or will we have reached the Internet of Too Many Things? Is there too much stuff on the Internet now?

The power to control or query objects over the Internet is just the beginning. It is great to be able to check the weather report online while away on vacation, and remotely turn off your landscape irrigation when rain is forecast at home. This still requires thought and intervention on your part, however. With the appropriate weather sensors and intelligence, your sprinkler controller could measure the local weather conditions and adjust its irrigation cycles autonomously, but this would require costly sensors that you would also have to maintain. Since local weather information is already available on the Internet, it would be more cost effective to have the sprinkler timer query the Internet for the local weather and adjust its operations accordingly, saving water and money. A sprinkler controller like this will be available soon ([www.skydrop.com](http://www.skydrop.com)).

Many common devices could provide additional benefits by being networked. Refrigerators could sense when they were empty and order grocery deliveries. Cars could schedule their own periodic maintenance and service appointments.

Once “things” can get their own information from the Internet, they should also be able to communicate with each other. This will provide us with more benefits and greater efficiency, while freeing us from the drudgery of monitoring every aspect of our household’s operation. Home lights and ac that are informed of your car’s arrival and greet you with a pleasant environment are just the beginning. Garage door openers could be told by your car that the engine has started, and open the door automatically. This would have the additional benefit of inhibiting potential suicides (for those determined enough to close the door manually, the opener could contact the online suicide hotline).

If our present Internet of Few Things is any indication, the benefits provided by this future Internet of Many Things may be offset by questions raised and problems created. Security is a significant problem for our online lives today; an exponential increase in networked devices probably means a similar increase in risks. Our government is concerned about the implications that networked

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IoT - having microcontrollers in most items in your home. And with microcontrollers come firmware, and with firmware comes firmware updates. I already get firmware upgrade messages on my Samsung Smart TV. What happens when I have to perform firmware updates on my toaster oven, microwave, blender, electronic door lock, water heater, electric razor and toilet? Will I spend all my time checking and updating my household devices? If I leave it to my “things” to update themselves unsupervised, will that just open up a gaping security hole?

Another unintended consequence of having so many smart devices is all the information they generate. While more information is usually good, too much information may not be. I already get texts and emails from Amazon when my packages ship. I get informed by my bank when my credit card is used without the card being physically present to the merchant (as in online). I get informed when the tracking device in the car my daughter drives leaves a specified location. All these messages are useful, but I am finding that most of the texts I am receiving

infrastructure such as the electrical grid, ground and air traffic control systems and water distribution would have for national security; hopefully those implementations will be secure enough. There is typically less concern for security on the consumer level, but in an IoT world the effects could be just as troubling. If the electrical grid controls were sufficiently protected, terrorists (or criminals) could perhaps achieve the same ends by taking control of the devices in the homes and businesses on the grid. Instead of turning power off at the source, all loads on the grid could be remotely turned off (or on, perhaps overloading the grid).

Internet-connected TVs and refrigerators have already been hacked; now add light bulbs to that list. An Internet security firm recently demonstrated that LIFX smart LED bulbs (<http://lifx.co>) can be hacked due to deficiencies in their security. The company released a firmware upgrade to correct the security problem, but how many existing users of their light bulbs will be able to perform the update?

That is one of the unintended consequences of the

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on my phone are these automated messages, not communications from humans. I can see the benefit in having my refrigerator tell me that its inside temperature is 60 degrees F. I would like to know if my water heater thinks it is leaking. I can’t, however, imagine any communications I might need to have from my electric toothbrush, electric razor or electric can opener. I hope device manufacturers would keep this in mind and not spam us with messages from our own products. I think most IoT devices would best be seen and not heard from.

An obvious consequence of the IoT world is the need for more Wi-Fi bandwidth. No one wants to have to route Cat5 cable to their refrigerator or have an RJ-45 socket on their electric razor. Most all IoT connections will need to be through Wi-Fi. This will require everyone to have a Wi-Fi router, causing greater interference issues, especially in apartments. Encrypted links will be required for security, perhaps leading to more configuration and connection problems. Fortunately, for most devices other than TVs and computers, the bandwidth required on each connection will be very low.

### Too Much Information?

With the IoT, there will definitely be more information available on the workings of your household appliances and thus your household. Privacy may be a major issue. Recently manufactured cars continuously record operational data that includes speed, miles and how a car is driven. This information can be useful to insurance companies to better rate drivers. It is also of interest to the police in accident investigations, and to lawyers when they become involved. There are concerns now about who owns this data and who can have access to it. I hope the IoT devices don't raise the same legal questions. I don't want to see my appliances being required to "testify" against me.

The big fear of course is that through the IoT our devices may unite and turn against us. Hopefully our household appliances won't collaborate with each other and our national intelligence assets, become self-aware and attempt to exterminate all humans. I'd hate to think my GPS car tracking device could be the start of the Terminator. If it is, though, we have unfortunately given the enemy too much help already, as the one thing I feel there is definitely too much of on the Internet is information - the personal kind.

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in Texas, who was foolish enough to provide LinkedIn with a photo; he is the first search result listed. With an uncommon name like mine, the remaining results are much less related. I guess we'd all better hope my offspring aren't the source of humanity's savior from the

In the 1984 sci-fi movie "The Terminator," the T-800 Terminator cyborg (played by Arnold Schwarzenegger) travels back in time from 2029 to 1984 Los Angeles to kill Sarah Connor, the mother of the person that will lead to the machines' defeat in the future. Not having the Internet as a resource in 1984, the Terminator had to use a paper phone book to methodically find and eliminate all three Sarah Connors listed there. If the Terminator had arrived in 2014 instead, its job would have been much easier, as Sarah Connor no doubt would have posted an abundance of personal information, including photos and perhaps here schedule, on her Facebook page. Accessing her postings, the cyborg would have no doubt been able to find her more easily, and perhaps more quickly identify her from among the other Sarah Connors.

Most of us have performed a Google search on our names to see what information was available about ourselves. How many have also done a Google Image search? I've found the results are interesting. I'm pretty careful about keeping my personal information off the Internet (I don't have a Facebook page, and only have the most basic stuff on my LinkedIn page, with no photo). My Google Image search found only one photo of me, from my Southwest 2014 presentation. There actually is another Greg Skalka

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IoT gone berserk; as the Terminator would likely be done with me in one shot and wouldn't have to "be back."

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## RAMBLINGS

**Jack Fischer, Director/Communications, The Computer Club, Inc. Florida**

**Newsletter: The Journal ([www.scccomputerclub.org](http://www.scccomputerclub.org)) jafischer (at) juno.com**

My nomination for the "Invention of the Century" is Caller ID. I know of nothing as empowering as looking at that TV or device-screen and deciding whether to answer the phone, or just let it ring!

It must be frustrating to those trying to sell me an Air Conditioner or a Security Alarm or whatever, but it certainly feels good from my side. I figure if it is someone who really needs, or wants, to get in touch with me, they will leave a message on my answering machine. If they merely hang up, it suggests that I don't need whatever it is they are offering.

Telephones have certainly changed. Remember the black, Western Electric instrument, where the phone company charged extra if we had more than one.

Today, it seems that everyone, from the President's encrypted Blackberry to my neighbor who hangs one on a string around his neck, has one of those that communicates, takes pictures, plays music and apparently protects us from Global Warming.

Not me, of course. I have an old rudimentary one that I keep in the car to call AAA when I run out of gas, or from the cellphone lot when meeting someone at the airport.

Happy Computing, Jack

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# SIG News

## LUNICS (Linux/Unix)

Andreas Meyer (lunics@acgnj.org)  
<http://www.acgnj.org/groups/lunics.html>

LUNICS is a group for those who share an interest in Unix and similar operating systems. While we do quite a bit with Linux, we've also been known to discuss Solaris and BSD as well. Recent meetings have followed a Random Access format. See our web page for further information. (We meet on the first Monday of each month, at 8:00 PM). ☐

### Main Meeting

Evan Williams (president@acgnj.org)  
<http://www.acgnj.org/groups/mainmeet.html>

We meet on the first Friday of the month, at 8:00 PM. Each December, this meeting includes our Annual Business Meeting and Officer Elections. *No* meetings in July or August. ☐

### Layman's Forum

Matt Skoda (som359@gmail.com)  
<http://www.acgnj.org/groups/laymans.html>

This SIG discusses issues of interest to novice users or those planning to get started in computing. Watch our Web page for updates and announcements. We meet at the same time as the Hardware Workshop. (On the second Monday of the month, at 8:00 PM). *No* meetings in July and August. ☐

### Hardware Workshop

Mike Reagan (hardware@acgnj.org)

This group is dedicated to repairing, refurbishing and/or recycling older computers. Ten people attended the first meeting, so there is still a market for this type of event. Although we looked at some of the older equipment stored in the back room, most of our time was spent in talking about past experiences and planning for the future. Hopefully, we can establish a viable long-term schedule of projects, and keep the interest of those who attended this inaugural meeting. If you have a hardware problem, bring it in and we can all help fix or demolish it. (No guarantees either way.) We meet at the same time as the Layman's Forum. (On the second Monday of each month, at 8:00 PM). ☐

## Java

Mike Redlich (mike@redlich.net)  
<http://www.redlich.net/javasig/javasig.html>

This SIG covers beginner, intermediate, and advanced level Java programming. Primary focus is on developing useful/practical applets and applications. (We meet on the second Tuesday of each month, at 7:30 PM). ☐

## Mobile Devices

Brenda Bell (mobdevsig@acgnj.org)

The Mobile Devices SIG focuses largely on current-generation cellphones and smart phones (such as Blackberry, Android, iPhone) which bridge the gap between basic cell phones and traditional computers, and how they can help you manage and organize your life. Our membership ranges from those who have recently acquired their first, basic cellphone to those who develop applications for today's modern smart phones, iPods, and ultra-portable computers. While we expect to spend much of our time investigating the built-in features and specialized applications available to modern smart phones, if you bring your basic (or multimedia) cell phone, iPod, or other mobile device with questions on how to use it, where to find applications, or what features they have, we are always happy to help! Meet and greet and plan where this event goes. Bring all your ideas, PDAs, fancy phones, etc. (We meet on the second Wednesday of alternate months (we get the even ones), at 7:30PM). ☐

## WebDev

Evan Williams (webdev@acgnj.org)

This SIG is an open forum for all Website Development techniques and technologies, to encourage study and development of web sites of all kinds. All languages will be considered and examined. The current project is a CMS for the club. Anyone interested in starting a new project, come to the meeting and announce/explain. Provide as much detail as possible. WebDev should be an all-encompassing development and examination forum for all issues, applications, OS, languages and systems one can use to build Websites. We currently

have two web development language SIGs: .NET and Java; but other languages and OS need to be investigated, examined and tested; Windows, Linux, UNIX, DEC, Vax, HP etc. Intel-PC, Motorola - MAC etc. (We meet on the second Wednesday of alternate months (we get the odd ones), at 7:30 PM). ☞

### **Investment Software**

Jim Cooper (jim@thecoopers.org)

[http://www.acgnj.org/groups/sig\\_investment.html](http://www.acgnj.org/groups/sig_investment.html)

The Investment SIG continues with presentations on how to use analysis programs TC2000 and TCNet. Large charts are presented on our pull down screen and illustrate the application of computer scans and formulas to find stocks for profitable investments. Technical analysis determines buy points, sell points and projected moves. Technical analysis can also be used on fundamentals such as earnings, sales growth, etc. We're no longer focusing on just Telechart. If you are using (or interested in) Tradestation, eSignal, VectorVest, or just in learning how to select and use charting and technical analysis, come join us!! (We meet on the second Thursday of the month, at 8 PM). ☞

### **NJ Gamers**

Gregg McCarthy (greggmajestic@gmail.com)

<http://www.NJGamers.com>

[www.lanparty.com](http://www.lanparty.com)

The Friday Night Frag starts at 6:00 PM on the second Friday of each month, and keeps going until 12 Noon on Saturday - 18 hours for 5 bucks!

BYOC - Bring your own computer.

BYOF - Bring your own food.

And if you don't like sitting on metal folding chairs...

BYO chair! ☞

### **Web Browser (Formerly Firefox)**

David McRitchie (firefox@acgnj.org).

This SIG is an open forum for all Firefox and Mozilla techniques and technologies, to encourage study and development of web sites of all kinds. All browsers will be considered and examined. All members and guests are invited to check out the design concepts and voice their opinion. (We meet on the third Monday of each month, at 7:30 PM). ☞

### **C/C++ Programming**

Bruce Arnold (barnold@ieee.org)

<http://acgnj.barnold.us/index.html>

This is a forum for discussion of programming in general, beginning and intermediate level C, C++, C-Win programming, hardware, algorithms, and operating systems. We demonstrate real programming in a non-intimidating way, presenting complete code for working programs in 3-5 sheets of paper. (We meet on the third Tuesday of each month, at 7:30 PM). **No** meetings in July or August. ☞

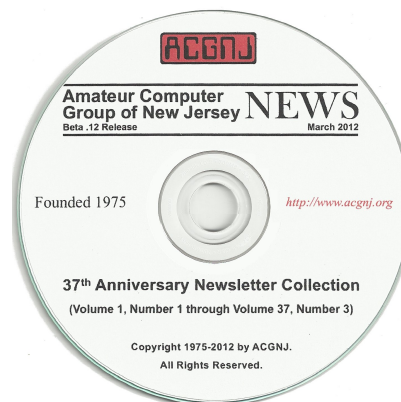
### **Window Pains**

John Raff (jraff@comcast.net)

<http://www.acgnj.org/groups/winpains.html>

Intended to provide members with Windows oriented discussions, Microsoft and Linux style. Directed to more technological level of attendee, but newbies are welcomed. (We meet on the third Friday of the month at 8:00 PM). **No** meetings in July or August. ☞

### **37<sup>th</sup> Anniversary Newsletter CD Now On Sale**



Beta .12 Release.

\$8.00, including postage.

(\$7.00 if you pick up a copy at a meeting).

Get yours today!

### **Back Issues Still Needed**

Our collection remains incomplete. Below is a list of missing newsletters. Anyone who lends us one of these (or supplies a good clear copy) will receive the next CD as our thanks.

1975: #2 and #3 (dates uncertain).

1976: January.

1984: August.

1985: June, July, August, September. ☞



## Guru Corner

If you need help with any of the technologies listed below, you can call on the person listed. Please be considerate and call before 10 PM.

### Software

HTML	Mike Redlich	908-246-0410
	Jo-Anne Head	908-769-7385
ColdFusion	Jo-Anne Head	908-769-7385
CSS	Frank Warren	908-756-1681
	Jo-Anne Head	908-769-7385
Java	Mike Redlich	908-246-0410
C++	Bruce Arnold	908-735-7898
	Mike Redlich	908-246-0410
ASP	Mike Redlich	908-246-0410
Perl	John Raff	973-560-9070
	Frank Warren	908-756-1681
XML	Mike Redlich	908-246-0410
Genealogy	Frank Warren	908-756-1681
Home Automation	Frank Warren	908-756-1681

### Operating Systems

Windows 3.1	Ted Martin	732-636-1942
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## ACGNJ T-Shirts For Sale



(Front)



(Back)

L, XL: \$15.00

M: 2 for \$15.00

bob.hawes (at) acgnj.org

## ACGNJ MEMBERSHIP APPLICATION

Sign up online at [http://www.acgnj.org/membership\\_update.htm](http://www.acgnj.org/membership_update.htm) and pay dues with PayPal.

US/CANADA		Dues	
		STUDENT	SENIOR CITIZEN (Over 65)
1 Year	\$25	\$20	\$20
2 Years	\$40		
3 Years	\$55		\$45

Mail this application and your check to:  
 AMATEUR COMPUTER GROUP OF NEW JERSEY, INC., P.O. BOX 135, SCOTCH PLAINS, NJ 07076

☐ New Member ☐ Renewal ☐ Address Change

First Name \_\_\_\_\_ Last Name \_\_\_\_\_ Phone \_\_\_\_\_

Mailing Address \_\_\_\_\_ E-Mail \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ URL \_\_\_\_\_

What topics would you like to see covered at club meetings? \_\_\_\_\_

Other Local Computer Groups		
<b>Princeton Macintosh User Group:</b> 7:15 pm 2nd Tuesday, Jadwin Hall, A-10, Washington Rd, Princeton, (609) 252-1163, <a href="http://www.pmug-nj.org">www.pmug-nj.org</a>	<b>Linux Users Group in Princeton:</b> 7 pm, 2nd Wednesday, Lawrence Branch Mercer Library, Rt#1 & Darrah Lane, Lawrence NJ <a href="http://www.lugip.org">http://www.lugip.org</a>	<b>New York PC:</b> 3rd Thurs, 7 pm, PS 41, 116 W 11th St. For info call hotline, (212) 533-NYPC, <a href="http://www.nypc.org">http://www.nypc.org</a>
<b>Computer Education Society of Philadelphia:</b> Meetings & Workshops at Jem Electronics, 6622 Castor Ave, Philadelphia PA. <a href="http://www.cesop.org/">www.cesop.org/</a>	<b>Brookdale Computer Users Group:</b> 7 pm, 3rd Friday, Brookdale Community College, Bldg MAS Rm 100, Lincroft NJ. (732)-739-9633. <a href="http://www.bcug.com">www.bcug.com</a>	<b>NJ Macintosh User Group:</b> 8 pm, 3rd Tuesday, Allwood Branch Library, Lyall Rd, Clifton NJ. (201) 893-5274 <a href="http://www.njmug.org">http://www.njmug.org</a>
<b>PC User Group of So. Jersey:</b> 2nd Mon., 7 pm, Trinity Presb. Church, 499 Rt 70 E, Cherry Hill, NJ. L. Horn, (856) 983-5360	<b>Hunterdon Computer Club:</b> 8:30 am, 3rd Sat, Hunterdon Medical Center, Rt 31, Flemington NJ. <a href="http://www.hunterdoncomputerclub.org">www.hunterdoncomputerclub.org</a> , (908) 995-4042.	<b>NY Amateur Computer Group:</b> 2nd Thurs, 7 pm, Rm 806 Silver Bldg, NYU, 32 Waverly Pl, NYC. <a href="http://www.nyacc.org">http://www.nyacc.org</a>
<b>Morris Micro Computer Club:</b> 7 pm 2nd Thurs., Morris County Library, Hanover Ave, Morristown NJ, (973) 267-0871. <a href="http://www.morrismicro.com">http://www.morrismicro.com</a>	<b>Central Jersey Computer Club:</b> 8 pm, 4th Friday, Rm 74, Armstrong Hall, College of NJ. Rich Williams, (609) 466-0909.	<b>NJ PC User Group:</b> 2nd Thurs, Monroe Rm at Wyckoff Public Library, 7 pm. Maureen Shannon, (201) 853-7432, <a href="http://www.njpcug.org">www.njpcug.org</a>
<b>Philadelphia Area Computer Society:</b> 3rd Sat, 12 noon Main Meeting, groups 8 am-3 pm. Upper Moreland Middle School, Hatboro PA. (215) 764-6338. <a href="http://www.pacsnet.org">www.pacsnet.org</a>	<b>NJ Computer Club:</b> 6:15 pm, 2nd Wednesday except Jul & Aug, North Branch Reformed Church, 203 Rt 28, Bridgewater NJ. <a href="http://www.njcc.org">http://www.njcc.org</a>	<b>Princeton PC Users Group:</b> 2nd Monday, Lawrenceville Library, Alt Rt 1 & Darrah Lane, Lawrenceville, Paul Kurivchack (908) 218-0778, <a href="http://www.ppcug-nj.org">http://www.ppcug-nj.org</a>

## Classified

**FREE TO MEMBERS.** Use our classified ads to sell off your surplus computer stuff. Send copy to Classified, ACGNJ NEWS, P.O. Box 135, Scotch Plains NJ 07076 or e-mail to the editor, [bdegroot@ptd.net](mailto:bdegroot@ptd.net). Classified ads are free to members, one per issue. Non-members pay \$10. Send check payable to ACGNJ Inc. with copy. Reasonable length, please.



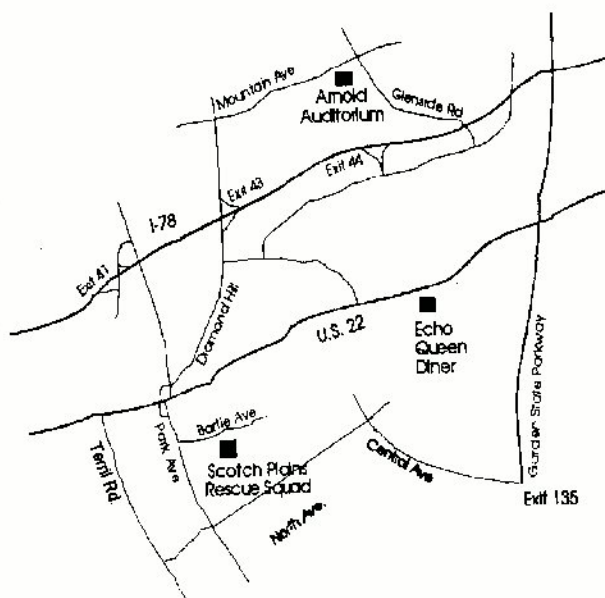
### Radio and TV Programs

**Computer Radio Show,** WBAI 99.5 FM, NY, Wed. 8-9 p.m.

**Software Review,** The Learning Channel, Saturday 10-10:30 p.m.

**On Computers,** WCTC 1450 AM, New Brunswick, Sunday 1-4 p.m. To ask questions call (800) 677-0874.

**PC Talk,** Sunday from 8 p.m. to 10 p.m., 1210 AM Philadelphia. 1-800-876-WPEN



### Directions to Meetings at Scotch Plains Rescue Squad, 1916 Bartle Ave., Scotch Plains NJ

#### From New York City or Northern New Jersey

Take Route 1&9 or the Garden State Parkway to US 22 Westbound.

#### From Southern New Jersey

Take Parkway north to Exit 135 (Clark). Stay on left of ramp, follow circle under Parkway. Bear right to Central Avenue; follow to Westfield and under RR overpass. Left at light to North Avenue; follow to light in Fanwood. Right on Martine (which becomes Park Ave). Right on Bartle Ave in middle of shopping district. Scotch Plains Rescue Squad (2-story brick) is located on the right. Do not park in the row next to the building — you'll be towed.

#### From I-78 (either direction)

Take exit 41 (Scotch Plains); follow signs to US 22. Turn right at light at bottom of hill and use overpass to cross Rt. 22. Follow US 22 Westbound directions.

#### From US 22 Westbound

Exit at Park Avenue, Scotch Plains after McDonalds on the right, diagonally opposite Scotchwood Diner on the left, immediately before the overpass. After exiting, turn left at the light and use overpass to cross US 22. Bear right at bottom of ramp to continue south on Park Avenue. Turn left at the second light (a staggered intersection). Scotch Plains Rescue Squad (2-story brick) is on the right. Do not park in the row next to the building — you'll be towed. We meet on the second floor, entering by the door at the right front of the building.

#### From Western New Jersey

Take US 22 Eastbound to the Park Avenue exit. The exit is about a mile past Terrill Road and immediately past the overpass. Exit onto Park Avenue South and follow the directions above to the Rescue Squad building. ☐